

II. CLAIM AMENDMENTS

1. (Currently Amended) A method for starting user interface software of an expansion card in an electronic device, which expansion card can be coupled in a releasable manner to the electronic device, wherein the user interface software comprises at least a basic module and a user interface module, the method comprisinges:

storing the basic module and the user interface module in a memory of the electronic device, the basic module and the user interface module being separate parts of the same user interface software prior to starting the user interface software;

~~starting the user interface software in at least two phases, wherein the user interface software comprises at least a basic module and a user interface module stored in the electronic device before connecting the expansion card with the electronic device, said basic module and said user interface module being separate parts of the same user interface software prior to starting the user interface software and wherein the first phase includes~~

~~starting the basic module by loading the previously stored basic module in conjunction with the start of the user interface software, the started basic module setting up the communication signalling between the user interface layer and the device drivers layer of the electronic device, wherein the setting includes initialization of parameters necessary for the expansion card and generating of error messages when operating system incompatibility issues are detected;~~

-and the second phase includes:

using the setting by the basic module, detecting the coupling of the expansion card to the electronic device, and

starting the user interface module by loading the previously stored user interface module when the coupling of the expansion card to the electronic device is detected,—the detecting comprising:

~~transmitting a signal to the basic module indicating that coupling of the expansion card to the electronic device is detected, and~~

~~the basic module starting the user interface module when the signal is received; and~~

utilizing the started user interface module to control the function of the expansion card.

2. (Previously Presented) The method according to claim 1 wherein said basic module of the user interface software controls the execution of the second phase.

3. (Previously Presented) The method according to claim 2, wherein in the electronic device an application programming interface and a device driver are executed in order to arrange communication between the user interface software and the expansion card, wherein when the expansion card is coupled to the electronic device, information on the coupling of the expansion card is transmitted from the device driver to the application programming interface from which the information is transmitted to the basic module, and wherein the loading and start-up of the user interface module is initiated from the basic module.

4. (Previously Presented) The method according to claim 3, wherein in the electronic device an operating system is executed to control the function of the electronic device, and in the coupling of the expansion card an interrupt signal is produced, wherein in the operating system the possible cause for the interrupt signal is examined and information on the coupling of the expansion card is transmitted to the device driver.

5. (Previously Presented) Method according to claim 1, wherein when the expansion card is detached from the electronic device, the user interface module is halted and the basic module is kept in operation.

6. (Previously Presented) The method according to claim 5, wherein when the user interface module is being loaded, an area in the memory is allocated for the user interface module, and when the expansion card is detached from the electronic device, the area allocated in the memory for the user interface module is deallocated.

7. (Currently Amended) An electronic device comprising:

a program loader configured to load user interface software in an electronic device;
a connecting element for coupling an expansion card in a releasable manner to the electronic device; and
a processor configured to load, start and execute program modules in the electronic device;

wherein the user interface software comprises at least a basic module and a user interface module, said basic module and said user interface module stored in a memory of the electronic device, the basic module and the user interface module being separate parts of the same user interface software prior to starting the user interface software, and stored in a memory of the electronic device and before connecting the expansion card with the electronic device, and the processor is configured to:

start the basic module by loading the previously stored basic module, the started basic module setting up communication signalling between a user interface layer and device driver layers in the electronic device, including initializing parameters necessary for the expansion card and a generation of error messages related to a detection of system incompatabilities;

start the user interface module by loading the previously stored user interface module of the user interface software after a detecting element, using the setting by the basic module, detects that the expansion card is coupled to the electronic device and the basic module is already loaded;

~~wherein a detecting element is configured to send a signal to the basic module when attachment of the expansion card to the electronic device is detected, wherein the basic module is configured to start the user interface module when the signal is received, wherein the started user interface module is used to control the function of the expansion card.~~

8. (Previously Presented) The electronic device according to claim 7, wherein said basic module of the user interface software comprises means for controlling the execution of the loading of the user interface module.

9. (Previously Presented) The electronic device according to claim 8, wherein the electronic device comprises means for executing the device driver to arrange communication between the user interface software and the expansion card, means for recognizing the coupling of the expansion card to the electronic device and means for transmitting the information on the coupling of the expansion card from the device driver to the basic module, and wherein the basic module comprises means for loading and starting the user interface module.

10. (Previously Presented) The electronic device according to claim 9, wherein the electronic device comprises means for executing an application programming interface, and said means for transmitting information on the coupling comprises an application programming interface.

11. (Previously Presented) The electronic device according to claim 10, wherein the electronic device comprises means for executing an operating system to control the function of the electronic device, means for producing an interrupt signal on the coupling of the expansion card to the electronic device, and wherein the operating system comprises means for examining the cause of said interrupt signal and means for transmitting information on the coupling to the device driver.

12. (Previously Presented) The electronic device according to claim 7, wherein the expansion card comprises a transmitter/ receiver unit and a high frequency power amplifier.

13. (Previously Presented) The electronic device according to claim 7, wherein it is a data processor.

14. (Currently Amended) An apparatus comprising:

storage for storing user interface software of an expansion card which expansion card can be coupled in a releasable manner to an electronic device in an electronic device; and

a processor configured to load, start and execute program modules in the electronic device, ~~which expansion card can be coupled in a releasable manner to the electronic device;~~

wherein the user interface software comprises at least a basic module and a user interface module, said basic module and said user interface module being separate parts of the same user interface software and stored within the storage prior to starting the user interface software and before connecting the expansion card with the electronic device, and a loading program comprises procedures for loading the user interface software in at least two phases, wherein in the first phase the loading and start-up of the basic module is executed by loading the previously stored basic module and setting up communication signaling between a user layer and a device driver layer of the electronic device, the setting including an initialization of parameters necessary for the expansion card and generating error messages when operating system incompatibilities are detected, and the second phase is executed using the setting by the basic module when the expansion card is coupled to the electronic device and the basic module is already started;

wherein a detecting element is configured to send a signal to the started basic module when the expansion card is attached to the electronic device, and wherein the started basic module is configured to start the user interface module by loading the previously stored user interface module from the storage for execution by the processor when the signal is received by the basic module, wherein the started user interface module is configured to control a function of the expansion card.

15. (Currently Amended) A method for loading the user interface software of an expansion card in an electronic device, which expansion card can be coupled in a releasable manner to the electronic device, wherein the method comprises:

executing the loading of the user interface software in at least two phases, wherein the user interface software comprises at least a basic module and a user interface module, said basic module and said user interface module being separate parts of the same user interface software stored in memory of the electronic device prior to starting the user interface software and stored within the electronic device before connecting the expansion card with the electronic device, and wherein the first phase includes:

loading and starting the basic module by loading the previously stored basic module, and using the started basic module to set up communication signaling between a user interface layer and device drivers layer of the electronic device, including initializing parameters necessary for the expansion card and generating error messages when system incompatibilities are detected;

the second phase includes:

using the settings by the basic module, detecting the coupling of the expansion card to the electronic device, and

loading the previously stored user interface module and starting the user interface module when the coupling of the expansion card to the electronic device is detected; and, the detecting comprising

using the started user interface module to control functions of the expansion card
~~transmitting a signal to the basic module that the expansion card is attached to the electronic device.~~

16. (Previously Presented) The method according to claim 15 wherein said basic module of the user interface software controls the execution of the loading of the user interface module.

17. (Previously Presented) The method according to claim 16, wherein in the electronic device an application programming interface and a device driver are executed in order to arrange communication between the user interface software and the expansion card, wherein when the expansion card is coupled to the electronic device, information on the coupling of the expansion card is transmitted from the device driver to the application programming interface from which the information is transmitted to the basic module, and wherein the loading and start-up of the user interface module is initiated from the basic module.

18. (Previously Presented) The method according to claim 17, wherein in the electronic device an operating system is executed to control the function of the electronic device, and in the coupling of the expansion card an interrupt signal is produced, wherein in the operating system the possible cause for the interrupt signal is examined and information on the coupling of the expansion card is transmitted to the device driver.

19. (Previously Presented) Method according to claim 15, wherein when the expansion card is detached from the electronic device, the user interface module is halted and the basic module is kept in operation.

20. (Previously Presented) The method according to claim 19, wherein when the user interface module is being loaded, an area in the memory is allocated for the user interface module, and when the expansion card is detached from the electronic device, the area allocated in the memory for the user interface module is deallocated.

21. (Currently Amended) An electronic device comprising:

a—user interface software comprising at least a basic module and a user interface module;

a connecting element for coupling an expansion card in a releasable manner in the electronic device; and

a processor configured to load, start and execute program modules in the electronic device;

wherein said basic module and said user interface module being separate parts of the same user interface software and stored within a memory of the electronic device, prior to starting the user interface software, and the processor is configured to:

start execution of the basic module by loading the previously stored user interface basic module of the user interface software and start the execution of the basic module when the expansion card is coupled to the electronic device and the basic module is already loaded, the started basic module setting up the communication signaling between the user interface layer and the device drivers layer of the electronic device, wherein the setting includes initialization of parameters necessary for the expansion card and generating of error messages when operating system incompatability issues are detected; and

loading the previously stored user interface module comprising, when the expansion card is coupled to the electronic device, using the setting by the started basic module and starting the user interface module; and

wherein the started user interface module is utilized to control the function of the expansion card.

22. (Previously Presented) The electronic device according to claim 21, wherein said basic module of the user interface software comprises means for controlling the execution of the second phase.
23. (Previously Presented) The electronic device according to claim 22, wherein the electronic device comprises means for executing the device driver to arrange communication between the user interface software and the expansion card, means for recognizing the coupling of the expansion card to the electronic device and means for transmitting the information on the coupling of the expansion card from the device driver to the basic module, and wherein the basic module comprises means for loading and starting the user interface module.
24. (Previously Presented) The electronic device according to claim 23, wherein the electronic device comprises means for executing an application programming interface, and said means for transmitting information on the coupling comprises an application programming interface.
25. (Previously Presented) The electronic device according to claim 24, wherein the electronic device comprises means for executing an operating system to control the function of the electronic device, means for producing an interrupt signal on the coupling of the expansion card to the electronic device, and wherein the operating system comprises means for examining the cause of said interrupt signal and means for transmitting information on the coupling to the device driver.
26. (Previously Presented) The electronic device according to claim 21, wherein the expansion card comprises a transmitter/receiver unit and a high frequency power amplifier.
27. (Previously Presented) The electronic device according to claim 21, wherein it is a data processor.

28. (Currently Amended) A computer readable storage medium for storing user interface software of an expansion card in an electronic device comprising a processor configured to load, start and execute program modules in the electronic device, which expansion card can be coupled in a releasable manner to the electronic device, wherein the user interface software comprises at least a basic module and a user interface module, said basic module and said user interface module being separate parts of the same user interface software and stored within a memory of the electronic device before connecting the expansion card with the electronic device, and the loading of program modules comprises procedures for loading the user interface software in at least two phases, wherein in a first phase the loading and start-up of the basic module is executed by loading the previously stored basic module and using the started basic module to set setting up the communication signalling between the user interface layer and the device drivers layer of the electronic device, wherein the setting includes initialization of parameters necessary for the expansion card and generating of error messages when operating system incompatibility issues are detected, and a second phase is executed when it is detected that the expansion card is coupled to the electronic device and the basic module is already loaded including starting the user interface module by loading the previously stored user interface module and utilizing the started user interface module to control the function of the expansion card.

29. (Previously Presented) The method of claim 15 further comprising stopping the loading between the first and second phases.

30. (Previously Presented) The electronic device of claim 21, wherein the program loader is configured to stop the loading between the loading of the basic module and user interface module.

31. (Previously Presented) The storage of claim 28, wherein the loading is stopped between the first and second phases.

III. REMARKS

The Commissioner is hereby authorized to charge payment for any fees associated with this communication or credit any over payment to Deposit Account No. 16-1350.

Respectfully submitted,

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